

NJDOT Bureau of Research  
**QUARTERLY PROGRESS REPORT**

Project Title:	Channel Usage Research and Analysis		
RFP NUMBER: 7841174	NJDOT RESEARCH PROJECT MANAGER: Giri Venkiteela		
TASK ORDER NUMBER: 25	PRINCIPAL INVESTIGATOR: Brian ten Siethoff, Christopher Titze, David Wagner		
Project Starting Date: 8/16/2013 Project Ending Date: 2/15/2013	Period Starting Date: 10/01/2013 Period Ending Date: 12/31/2013		

Task	% of Total Project Budget	Total Budget	% of Task This Quarter	Cost This Quarter	% of Task to Date	Total Cost to Date
1. Literature Search	12%	\$14,020.00	5%	\$701.00	90%	\$12,618.00
2. Evaluate and Screen Vessel Count and Classification Methodologies	8%	\$9,120.00	5%	\$456.00	90%	\$8,208.00
3. Data Collection and Pilot Test of Vessel Count and Classification Methodologies	64%	\$72,560.00	10%	\$7,256.00	80%	\$58,048.00
4. Final Report	16%	\$17,060.00	7%	\$1,194.20	7%	\$1,194.20
TOTAL	100%	\$112,760.00	9%	\$9,607.20	71%	\$80,068.20

**Project Objectives:**

The purpose of this task is to 1) Develop and implement a reliable, repeatable, and verifiable method or SOP (Standard Operating Procedure) to collect vessel count and classification information by time of day; 2) Test one or more approaches that could be applicable to a broader statewide effort to collect vessel count information utilizing the selected method on approximately 214 state channels within the state's Marine Transportation System; and 3) Collect channel usage and classification data on a representative sample of the 214 state channels using a variety of methodologies so that results can be compared and guidance can be provided for future data collection efforts.

**Project Abstract:**

New Jersey's state channels are critical to the quality of life and economies of the state's coastal communities. The channels provide access to marinas and docks, and they allow fishing vessels, charter boats, and other commercial traffic to access Federally-maintained waterways like major inlets to the Atlantic Ocean and the Atlantic Intracoastal Waterway. As an initial step in a broader effort to better understand how these channels are used and how the Department of Transportation can best allocate scarce resources to channel dredging and other maintenance activities, this project involves defining a standard operating

procedure for collecting data about the size and number of vessels using each of the 214 state-maintained channels in New Jersey.

## **1. Progress this Quarter by Task**

### **Task 1:**

- The consultant team began drafting a technical memorandum summarizing information gathered in literature search.

### **Task 2:**

- The consultant team began drafting a technical memorandum summarizing screening criteria for the evaluation of various vessel count and classification methodologies.

### **Task 3:**

- The consultant team performed an in-depth review of the findings from the field research and began categorizing the information by location into a data collection results database.
- The consultant team began modifying training materials to include actual photos of vessels observed in data collection effort.

### **Task 4:**

- The consultant discussed the outline for the final report with NJDOT staff at the quarterly meeting on October 9.
- The consultant team developed a final report outline.
- The consultant team began writing narrative sections of the final report.

## **2. Proposed activities for next quarter by task**

### **Task 1:**

- The consultant team will complete and submit technical memorandum summarizing information gathered in literature search.

### **Task 2:**

- The consultant team will complete and submit a technical memorandum summarizing screening criteria for the evaluation of various vessel count and classification methodologies.

### **Task 3:**

- The consultant team will complete all post-processing and examination of collected data.
- The consultant team will complete requested revision to the summary tables in the data collection result database. Specific modifications will include:
  - Re-formatting the summary tables (where available) to provide an at-a-glance count of vessels by category for each site;
  - Indicate the percentage split of personal vs. commercial vessels for each pilot area (where available);
  - Where available add basic descriptive statistics such as percent difference in the total count for the various alternative methodologies.

Task 4:

- The consultant team will prepare and submit a draft and final report based on the results of the literature search, methodology screening, pilot testing, and data collection and analysis.

### **3. List of deliverables provided in this quarter by task (product date):**

Task 1:

- No deliverables this quarter.

Task 2:

- No deliverables this quarter.

Task 3:

- No deliverables this quarter.

Task 4:

- No deliverables this quarter.

### **4. Progress on Implementation and Training Activities:**

- No work on implementation or training in this period

### **5. Problems/Proposed Solutions:**

- No problems to report during this period.

Total Project Budget	\$112,760.00
<b>Contract Amount:</b>	\$112,760.00
Total Project Expenditure to date	\$80,068.20
% of Total Project Budget Expended	75%